

Marked-up version of Original Abstract

A hydrodynamic type oil-impregnated sintered bearing comprising includes a porous bearing body of sintered metal having a bearing surface opposed to a sliding surface of a rotating shaft, ~~in which~~ hydrodynamic pressure generating grooves slanting slating against an axial direction are provided in the bearing surface, and ~~—~~ Lubricating lubricating oil or ~~the base oil of~~ lubricating grease ~~to be impregnated into~~ in pores inside the bearing body ~~is~~, wherein a rate of area of surface holes on the bearing surface is set within a range of 3%-15%, the surface holes being distributed substantially uniformly over the whole area of the bearing surface including areas of the hydronamic pressure generating grooves, wherein the lubricating oil or a base oil of the lubricating grease forms a lubricating film in a bearing clearance, and wherein the lubricating oil or a base oil of the lubricating grease is a lubricating oil selected from among (a) mixtures of poly- α -olefin or hydrogenated compound thereof and a defined phosphoric ester and (b) ester. The compounding ratio of poly- α -olefin or hydrogenated compound thereof to ester preferably ranges from 95:5 to 0:100 in weight ratio. The ester is preferably polyol ester. In the cases of the lubricating grease, the thickener of the lubricating grease is preferably composed of urea compound selected from the group shown in the following formula: $R1-NHCONH-R2-NHCONH-R3$, where $R2$ represents an aromatic hydrocarbon group ranging from 6 to 15 in carbon atomicity, $R1$ and $R3$ represent an aromatic hydrocarbon group ranging from 6 to 12 in carbon atomicity or an alkyl group ranging from 8 to 20 in carbon atomicity. A plurality of bearing surfaces may be formed on the inner periphery of the bearing body so as to be separated one another. In this case, the inner diameters of the bearing body at areas between the bearing surfaces

~~are arranged to be greater than those at areas on the bearing surfaces except the hydrodynamic pressure generating grooves. The hydrodynamic type oil impregnated sintered bearing is suitably applied to a spindle motor for information equipment.~~

REMARKS

Reconsideration of this application is respectfully requested in view of the following remarks. This Supplemental Amendment is submitted responsive to the Office Action dated December 8, 2010, and the points discussed with the Examiner during a telephone conversation which took place on March 21, 2011, and supplements to the Amendment filed on March 8, 2011.

By the foregoing Supplemental Amendment, the Abstract is amended to correct informalities therein and, in particular, to comply with the word limit requirement. No new matter has been added.

The Applicants hereby thank the Examiner for the courtesies extended to the Applicants' representative during the telephone call of March 21, 2011. By the foregoing Supplemental Amendment, the Abstract has been amended as suggested by the Examiner to correct informalities therein and place the application in condition of allowance. Thus, the Applicants look forward to an allowance of claims 1, 3-4, 6, 8-9, and 25-26.

Should the Examiner determine that any further action is necessary to place this application into better form, the Examiner is invited to contact the undersigned representative at the telephone number listed below.

In the event this paper is not considered to be timely filed, the Applicants hereby petition for an appropriate extension of time. The Commissioner is hereby authorized to charge any fee deficiency or credit any overpayment associated with this communication to Deposit Account No. 01-2300 referencing client matter number 100725-09009.

Respectfully submitted,
Arent Fox LLP

A handwritten signature in black ink, appearing to read 'W.D. Doyle', is written over a horizontal line.

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